

UNDERGRADUATE PROGRAM IN NEUROSCIENCE

Neuroscience is vital to everything we do

Every aspect of the human experience — our intellectual and emotional lives, perceptions, sense of wellbeing, and volitional activities — all rely on brain and nervous system function. **Neuroscience is the field that attempts to explain and predict the what, the why, and the how of the human experience.**



Interdisciplinary and flexible with pre-health, research, and business options

The B.S. in Neuroscience degree at Georgia Tech is an interdisciplinary degree that provides training in behavioral and cognitive, molecular, cellular and systems neuroscience. Students have a lot of flexibility in the design of their four-year program of study. In addition to a set of courses that make up the neuroscience core, students select from a list of neuroscience electives. Students complete a 15 credit-hour set of breadth electives chosen from biology, chemistry, computing, engineering, mathematics, physics, physiology or psychology. The curriculum offers a pre-health option for students who interested in careers in medicine (e.g., pre-medical, pre-pharmacy, pre-dental, pre-physical therapy, etc.), along with a research option and a business option.

Learn neuroscience from cells to behavior

Georgia Tech Neuroscience graduates will possess a command a multiscale understanding of the structure and function of the brain and nervous system, from molecules through cells and networks, to systems and behavior. Each graduate will have knowledge of methods, applied solutions and technologies that enable new discoveries and support their translation into diagnoses and treatments of brain disorders through academic, government and industrial partnerships.

FOR MORE INFORMATION

Visit www.neuroscience.cos.gatech.edu or contact Mary Holder, the associate director of the Neuroscience Undergraduate Program, at mary.holder@psych.gatech.edu.

Undergraduate research

Undergraduate students working in world renowned research groups in the College of Science have contributed to research that has been presented at national and international conferences and published in leading scholarly journals. Research in Neuroscience explores:

- **Behavior and Cognition** – Brain imaging, neuroplasticity, cognitive motor control, motor physiology, clinical neurophysiology, neural mechanisms for vision, attention, memory, learning.
- **Molecular and Cellular Science** – cell signaling, cancer biology, receptor trafficking, cell differentiation, molecular physiology, molecular biophysics, structural biology, genetics, cellular synapses.
- **Systems** – artificial intelligence, electrophysiology, biomechanics and neural control of movement, neural coding, neural prosthetics, rehabilitation, human-computer interactions.

International opportunities

Neuroscience majors have a wide range of opportunities for undergraduate study at institutions throughout the world. Further information can be obtained from the Office of International Education (www.oie.gatech.edu). Each year, many College of Sciences students participate in Georgia Tech-led programs in France, Spain, and Australia/Fiji/New Zealand.

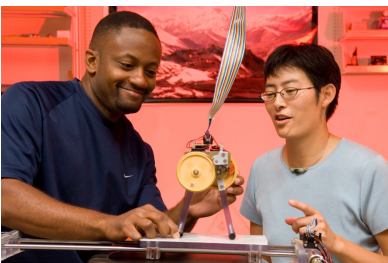
Careers

The B.S. program in Neuroscience provides exceptional levels of preparation for admission to graduate study, medical school and other professional graduate programs (e.g., veterinary science, pharmacy, law, etc.), as well as careers in industry. Neuroscience graduates take positions in all types of employment sectors, such as:

- Research & Development
- Forensics
- Sales and Marketing
- Law/Public Policy
- Clinical Laboratories
- Teaching
- Artificial Intelligence
- Healthcare (Medicine, Pharmaceuticals, Rehabilitation)
- Engineering/Industrial Design
- Counseling/Psychiatry/Psychology
- Aesthetics (Music, Art)
- State/Federal Agencies (NIH, CDC, DoD)
- Human-Computer interaction

Georgia Tech has the largest voluntary co-op education program in the nation. Participation in co-op or internship programs provides financial support for your studies, and invaluable experiences. See www.coop.gatech.edu.

- Georgia Tech ranks first in the nation for the annual percentage return on investment whereby lifetime salary is compared to tuition costs [1].
- The U.S. Department of Labor reports that the average salary of neuroscientists (e.g., medical scientists) is \$82,240 [2]



[1] www.payscale.com
[2] www.bls.gov/oes/current/oes191029.htm